

Notice of Allowability	Application No.	Applicant(s)	
	09/756,668	JOLITZ, LYNNE G.	
	Examiner	Art Unit	
	Michael B. Holmes	2121	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to December 21, 2004.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 08 January 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |



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Examiner's Detailed Office Action

1. Claims 1-6 are allowed.

Examiner's Amendment

In the Claims:

2. This examiner's amendment was authorized byway of a facsimile transmission from Mr. Harold D. Messner, Reg. No. 20,189 received on March 14, 2005.

Claim 1 (Original) In a system consisting of a cell phone, wireless network, and a base station, for cell communication packets having a formatted header containing information about the packet, said cell phone comprising a modulator/RF detector and a DSP, the improvement comprising means for transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing directed attachment to other stream oriented protocol devices without interposed protocol translation while reducing complexity.

Claim 2 (currently amended) The Improvement of claim 1 wherein said means for transparent bi-directional translation of audio/video protocols into Internet standard protocols Includes means for storing application contents of an incoming packet into an cell phone application

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memory, means for comparing the incoming packet with a plurality of predetermined patterns stored in a content addressable memory to identify a matching pattern; means for processing the incoming packets simultaneously with said comparing means for determining whether or not the packet including the embedded layers of protocol is valid; means operative upon a matching pattern being identified and the packet being determined valid for processing said packet in accordance with the identified pattern; and means operative upon failing to identify a matching pattern or upon determining the packet to be invalid for processing said packet in a software process.

Claim 3 (original) A method of accelerating a stream-oriented network transport protocol involving a system having a cell phone, wireless network, and a base station, for cell communication packets having a formatted header containing Information about the packet, said cell phone comprising a modulator/RF detector and a DSP, means for transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity, the method comprising analyzing packet traffic on the wireless network to identify classes of predictable protocols which characterize a majority of such packets; implementing programmable hardware logic to process such classes of protocols, said programmable logic being clocked at a rate corresponding to a signaling rate on the network; analyzing the header of a packet to identify one of said classes to which said packet belongs; controlling said programmable logic in accordance with the identified class to process

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the packets; and processing in software routines instead of said programmable logic packets which do not belong to one of said plurality of classes.

Claim 4 (Original) In a system consisting of a cell phone, wireless network, base station, and gateway to Internet networks, for cell communication packets having a formatted header containing information about the packet, said gateway comprising a wireless network protocol attachment, a protocol translation application, and a Internet network attachment, the improvement comprising means for transparent bidirectional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity.

Claim 5 (currently amended) The improvement of claim 4 wherein said means for transparent bi-directional translation of audio/video protocols into Internet standard protocols includes means for storing application contents of an incoming packet into a gateway application memory; means for comparing the incoming packet with a plurality of predetermined patterns stored in a content addressable memory to identify a matching pattern; means for processing the incoming packets simultaneously with said comparing means for determining whether or not the packet including all embedded layers of protocol, is valid; means operative upon a matching pattern being identified and the packet being determined valid for processing said packet in accordance with the identified pattern; and means operative upon failing to identify a matching pattern or upon determining the packet to be invalid for process said packet in a software process.

Claim 6 (original) A method of accelerating a stream-oriented network transport protocol involving a system having a cell phone, wireless network, base station, and a gateway, for data packets having a formatted header containing information about the packet, said gateway comprising a wireless network protocol attachment, a protocol translation application, and a Internet network attachment means for transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity, the method comprising analyzing packet traffic on the network to identify classes of predictable protocols which characterize a majority of such packets; implementing programmable hardware logic to process such classes of protocols, said programmable logic being clocked at a rate corresponding to a signaling rate on the network; analyzing the header of a packet to identify one of said classes to which said packet belongs; controlling said programmable logic in accordance with the identified class to process the packets; and processing in software routines instead of said programmable logic packets which do not belong to one of said plurality of classes.

REASONS FOR ALLOWANCE

3. The following is an Examiner's statement for reasons for allowance:
4. The closest prior art *Baran, Paul* (USPN 5,421,030), *Walters et al.* USPN 5,982,324) and *Dietz et al.* (USPN 6,651,099) do not teach or render obvious applicant's claimed invention. In particular, as pointed out below, the prior art lacks certain features and the combination as specified in the respective claims.

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5. With regards to claim 1 *Baran, Paul, Walters et al.*, and *Dietz et al.* do not disclose ... transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity.

6. With regards to claim 3 *Baran, Paul, Walters et al.*, and *Dietz et al.* do not disclose ... for transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity, implementing programmable hardware logic to process such classes of protocols, said programmable logic being clocked at a rate corresponding to a signaling rate on the network.

7. With regards to claim 4 *Baran, Paul, Walters et al.*, and *Dietz et al.* do not disclose ... for transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity.

8. With regards to claim 6 *Baran, Paul, Walters et al.*, and *Dietz et al.* do not disclose ... for transparent bi-directional translation of audio/video protocols into Internet standard protocols, thereby allowing direct attachment to other stream oriented network protocol devices without interposed protocol translation while reducing complexity, implementing programmable hardware logic to process such classes of protocols, said programmable logic being clocked at a rate corresponding to a signaling rate on the network.

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Correspondence Information

9. Any inquires concerning this communication or earlier communications from the examiner should be directed to Michael B. Holmes, who may be reached Monday through Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile transmission (571) 273-3686 or email Michael.holmesb@uspto.gov.

If you need to send an Official facsimile transmission, please send it to (703) 746-7239.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony Knight, may be reached at (571) 272-3687.

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor of the south side of the Randolph Building.

Michael B. Holmes

Patent Examiner

Artificial Intelligence

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United States Department of Commerce

Patent & Trademark Office

Thursday, March 10, 2005

MBH



Anthony Knight
Supervisory Patent Examiner
Group 3600